

**Sequence Listing**

SEQ ID NO. 1

5 GLP-1 (1-37)

His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-  
Gly

10

SEQ ID NO. 2

GLP-1 (1-36)

15 His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg

SEQ ID NO. 3

20 GLP-1 (1-36)NH<sub>2</sub>

His-Asp-Glu-Phe-Glu-Arg-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-  
Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-  
Xaa

25

Xaa is NH<sub>2</sub>

SEQ ID NO. 4

30 GLP-1 (7-37)

His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Gly

35

SEQ ID NO. 5

GLP-1 (7-36)

His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
40 Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg

SEQ ID NO. 6

GLP-1 (7-36)amide

45

His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-  
Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Xaa

Xaa is NH<sub>2</sub>

50

SEQ ID NO. 7

Exendin-3 (Heloderma horridum horridum) Genbank Accession No. P20394

55 hsdgtftsd1 skqmeeavrlfiewlknngg pssgappps

## SEQ ID NO. 8

Exendin-4 (Heloderma suspectum) Genbank Accession No. HWGH4G

5 hgegtftsdl skqmeeeavr lfiewlkngg pssgappps

## SEQ ID NO. 9

Exendin 4(1-31)

10

HGEGTFTSDLSKQMEEAVR LFIEWLKNGGPY

## SEQ ID NO. 10

15 Exendin-4(9-39)

DLSKQMEEEAVRLFIEWLKNGGPSSGAPPPS

## 20 SEQ ID NO. 11

Gastrin 34

Xaa-Leu-Gly-Pro-Gln-Gly-Pro-Pro-His-Leu-Val-Ala-Asp-Pro-Ser-Lys-Lys-Gln-  
Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe

25

Xaa = pyroglutamate

## SEQ ID NO. 12

Gastrin 34

30

Xaa-Leu-Gly-Pro-Gln-Gly-Pro-Pro-His-Leu-Val-Ala-Asp-Pro-Ser-Lys-Lys-Gln-  
Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Leu-Asp-Phe

Xaa = pyroglutamate

35

## SEQ ID NO. 13

Gastrin 17

40 Xaa-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Met-Asp-Phe

Xaa = pyroglutamate

## 45 SEQ ID NO. 14

Gastrin 17

Xaa-Gly-Pro-Trp-Leu-Glu-Glu-Glu-Glu-Glu-Ala-Tyr-Gly-Trp-Leu-Asp-Phe

50 Xaa = pyroglutamate

SEQ ID NO. 15  
Gastrin 71

5 mqrllcvyqli falalaafse aswkprsqqp daplggtganr dlelpwleqq gpashhrrql  
gpqgpphlva dpskkqgpwl eeeeeaygwm dfgrrsaede n

10 SEQ ID NO. 16  
Gastrin 52

DLELPWLEQQ GPASHHRRQL GPQGPPHLVA DPSKKQGPWL EEEEEAYGWM DF

15 SEQ ID NO. 17  
Gastrin 14

WLEEEEEAYGWM DF

20 SEQ ID NO. 18  
Gastrin 6

YGWM DF

25 SEQ ID NO. 19  
Gastrin 6

30 YGWL DF

SEQ ID NO. 20  
HGEFTFTSDLSKQMEEEAVRLFIEWLKNNGX  
35

SEQ ID NO. 21  
HX1X2GTFITSDLSKQMEEEAVRLFIEWLKNNGPSSGAPPPS  
40

SEQ ID NO. 22  
HGEFTFTSDLSKQMEEEAVRLFIEWLKNNGPSSGAPPSKKKKKK  
45

SEQ ID NO. 23  
Tyr-Gly-Trp-Met-Asp-Phe  
50

SEQ ID NO. 24  
Tyr-Gly-Trp-Leu-Asp-Phe  
55

SEQ ID NO. 25

5 Gly-Ala-Gly-Ala-Gly-Ala-Gly-Ala-Gly-Ala

SEQ ID NO. 26

10 TrpMetAspPhe-NH<sub>2</sub>

SEQ ID NO. 27

15 TrpLeuAspPhe-NH<sub>2</sub>